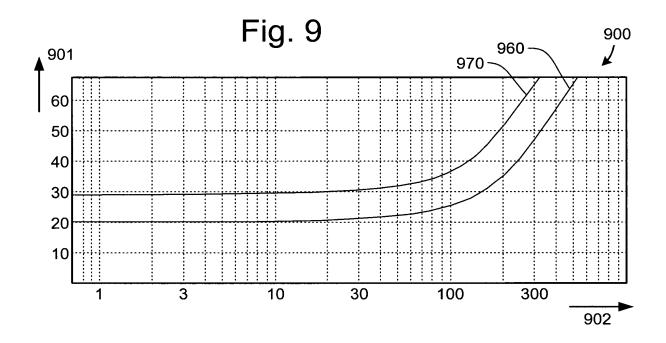


Fig. 7

```
// Function: sa EvalDeltaS ()
// Parameters: S_Head, D_Head, StartSector, SrcCyl
           Adjustment to be added to the preliminary seek length
//-----
           EffectiveDistance = DestCyl + DeltaL(Dest) - SrcCyl - DeltaL(Src)
                         = DestCyl + DeltaS(Dest,Src) - SrcCyl
//
              DeltaL(Location) = c0(h) + c1(h)*NormalizedSrcCyl>>15
//
//
                              + c2(h)*(NormalizedSrcCyl^2)>>30
                     + c3(h)*sine(StartingSector) + c4(h)*cosine(StartingSector)
//
               DeltaS(Dest,Src) = DeltaL(Dest) - DeltaL(Src)
//
                    = c0(D_Head) - c0(S_Head)
//
                    + (c1(D Head) - c1(S_Head)) * NormalizedSrcCyl>>15
//
                    + (c2(D_Head) + c2(S_Head)) * (NormalizedSrcCyl^2)>>30
//
                    + (c3(D_Head) - c3(S_Head)) * sine(StartingSector)>>15
II
                    + (c4(D Head) - c4(S Head)) * cosine(StartingSector)>>15
//
    pd Opr_ai16Q15SineTable(x) = round(32767*sine(x*2*Pi/SECTORS_PER_REV))
int16 sa_EvalDeltaS (uint16 S_Head, uint16 D_Head, uint16 u16_Sector, int32 i32_Cyl)
 static int32 i32 DeltaL =0; // output before final RightShift
 #define C0 SHIFT 15
           // RightShift for total to convert to integer tracks (=15+Qvalue of DC terms))
 #define C1 SHIFT 4
           // RightShift for cylinder input, selected so that:
                  (Max Cyl >>C1 SHIFT) is between 8K and 32K.
i32 DeltaL = ((int32)(Table.i16 DeltaS[D Head][4] - Table.i16_DeltaS[S_Head][4])
         * (int32)pd Opr ai16Q15SineTable[u16_Sector+SECTORS_PER_REV/4]);
i32 DeltaL +=((Table.i16 DeltaS[D_Head][3] - Table.i16_DeltaS[S_Head][3])
         * (int32)pd Opr ai16Q15SineTable[u16_Sector]);
i32_DeltaL +=((Table.i16_DeltaS[D_Head][2] - Table.i16_DeltaS[S_Head][2])
         * (i32 Cyl >> C1 SHIFT)*((i32 Cyl >> C1_SHIFT)>>C0_SHIFT));
i32 DeltaL +=((Table.i16 DeltaS[D_Head][1] - Table.i16_DeltaS[S_Head][1])
         * (i32 Cyl >> C1 SHIFT));
i32 DeltaL +=(Table.i16_DeltaS[D_Head][0] - Table.i16_DeltaS[S_Head][0])
                                       // could also add this term after final shift
         << C0_SHIFT;
 return (int16) ((i32_DeltaL + (1<<(C0_SHIFT-1) ))>> C0_SHIFT);
      // round off and shift to q0.
}
```

	880	870	871	872 <del>•</del>	873 <del>•</del>	874	
810	0	16	43	-1775	-32	-10	▶ 800
811	1	16	32	-1288	-31	-11	
812	2	-13	402	248	-2	0	
813	3	0	0	0	0	0	

Fig. 8



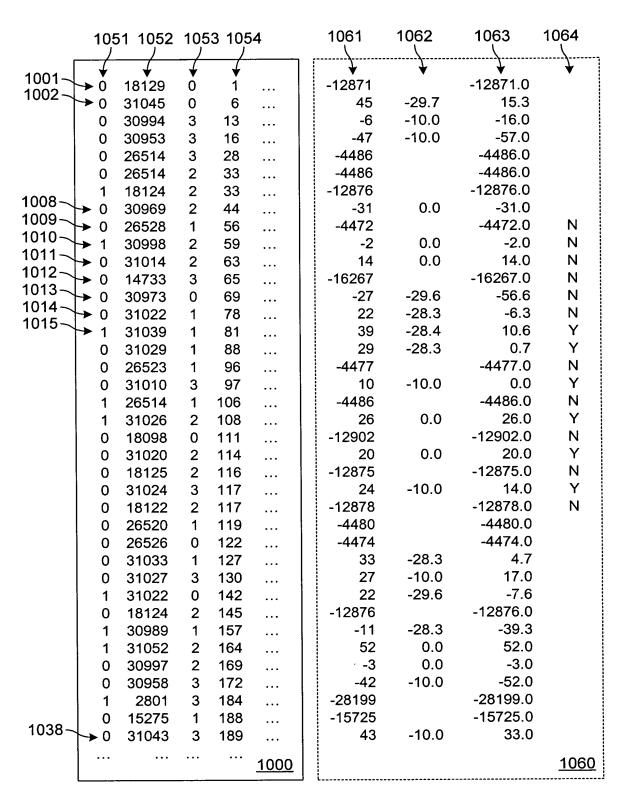


Fig. 10